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Message Text

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64
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E.O. 11652: N/A
TAGS: BEXP, TECH, RO
SUBJ: PROPOSAL FOR JOINT RESEARCH IN MANUFACTURING CEMENT
USING ROMANIAN BITUMINOUS SHALE

1. SUMMARY: ROMANIAN FTO FOREXIM IS SEEKING A US FIRM AS PARTNER FOR LABORATORY RESEARCH AND PILOT PLANT EXPERIMENTS IN THE USE OF BITUMINOUS SHALE AS A FUEL AND AS A RAW MATERIAL IN MANUFACTURING CEMENT. EMBASSY WOULD APPRECIATE ANY INDICATIONS OF INTEREST BY US FIRMS AND SUGGESTIONS ON HOW ROMANIA MIGHT BEST PROCEED. END SUMMARY.

2. GOR BELIEVES THAT THE BITUMINOUS SHALES OF THE ANINA REGION (CARAS-SEVERIN COUNTY) HAVE A COMPOSITION SUITABLE FOR BURNING IN ROTARY CEMENT KILNS TO PRODUCE CEMENT. TO TEST THIS CONCEPT THEY WILL NEED EQUIPMENT UNAVAILABLE IN ROMANIA, AND HAVE THEREFORE PROPOSED THAT EMBASSY CONTACT A US FIRM WHICH WOULD BE INTERESTED IN CONDUCTING THE NECESSARY LABORATORY WORK AND PILOT PLANT EXPERIMENTS. ROMANIA PROPOSES TO SHIP ABOUT 15 TONS OF BITUMINOUS SHALE SAMPLE, AND THE RESEARCH AND DESIGN INSTITUTE ICPDILA WOULD EXPECT TO GET SAMPLES OF ABOUT 500 KILOGRAMS EACH OF CLINKER AND CEMENT IN RETURN.

3. THE US FIRM WOULD BE EXPECTED TO UNDERTAKE THE FOLLOWING:

A. TESTS AND ANALYSIS OF CHEMICAL AND MINERAL COMPOSITION
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AND CALORIFIC POWER OF THE SHALE;

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B. BURNING IT AT VARIOUS TEMPERATURES TO DETERMINE BEST RESULTS;

C. TESTING CHEMICAL AND MINERAL COMPOSITION OF THE RESIDUE;

D. PILOT PLANT EXPERIMENTS USING SHALE AS FUEL AND AS RAW MATERIAL FOR MAKING CLINKER, TO ESTABLISH TECHNOLOGY BY MEANS OF A DRY PROCESS (ROTARY KILN WITH HEAT EXCHANGER IN SUSPENSION), TO DETERMINE TECHNICAL AND ECONOMIC CHARACTERISTICS (PRODUCTIVITY; CONSUMPTION OF RAW MATERIAL, FUEL AND ELECTRIC POWER; DUSTINESS);

E. CHEMICAL AND MINERALOGICAL ANALYSIS OF RAW MATERIALS USED;

F. TESTING CHARACTERSITICS OF PRODUCTS OBTAINED: CHEMICAL COMPOSITION OF CLINKER AND CEMENT; PHYSICAL/MECHANICAL TESTS OF CEMENT ACCORDING TO DIN 1164/70.

4. THE ANINA BITUMINOUS SHALES HAVE THE FOLLOWING AVERAGE COMPOSITION: SI02 (43.0), A1203 (22.0), FE203 (7.5), CAO (0.7), MGO (0.6), NA20 (0.2), K20 (1.2), SO3 (0.5).

5. INTERESTED FIRMS SHOULD CONTACT FOREXIM, 111 CALEA VICTORIEI, BUCHAREST, ROMANIA, CITING DOSSIER 408.376, OR THE EMBASSY, ATTN: COMMERCIAL ATTACHE. WE HAD AN INDICATION OF HIGHER-LEVEL GOR INTEREST IN THIS TECHNOLOGY IN JANUARY OF THIS YEAR, WHEN MINISTER FOR CHEMICAL INDUSTRY FLORESCU MENTIONED THE POSSIBILITY OF USING SHALES IN THIS MANNER TO EXIMBANK CHAIRMAN CASEY. IF THE ABOVE PROPOSAL IS NOT APPROPRIATE FOR US FACILITIES, EMBASSY WOULD WELCOME SUGGESTIONS ON HOW GOR MIGHT BEST PROCEED.
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